

Selection of Efficient Water Treatment Systems
for High- And Superhigh-Pressure Bent-Tube
Boilers, by M. S. Shirob, I. M. Bozakov.

TEPLOENERGETIKA
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AZB 36K25R
RJ-1523

Sci
May 59

ET, 262

Application of the Theory of a Free Jet in
A Stream Travelling in the Same Direction to
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A. G. Polyushkov.

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Coop Trans Scheme Tr 212
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Sci & Aeronautics, Engineering

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Sci - Engr
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Temperature Variations in High Pressure Boiler
Drums and Their Treatment, by I. A. Meshchaninov,
G. F. Mochnik. UNCL

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pp 44-48.

DSIR LIU (loan) M.367

Sci - Phys
Jul 59

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An Investigation of Salt Carry Off by Steam Using
Radioactive Isotopes, by A. A. Andreyevskiy,
Yu. V. Zenkevich, 18 pp.

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AEC UCRL-Trans-501(L)

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Approximate Method for Calculating Losses in
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RUSSIAN, no per, Zaploenergetika, No 9, 1955,
pp 43-47.

Co-Op Trans Sch Tr 291
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Sci - Engineering

On the Influence of Ammonia Compounds on the
Method of Working and Corrosion of Steam
Powered Equipment, by D. S. Shevtaov,

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pp 48-51.

ASLIB-G 114 No 91

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Investigation of the Combustion of Coal-Dust Suspensions in Air at Increased Pressures, by V. M. Tretyakov, 21 p. RUSSIAN, per, Teploenergetika, Vol II, No 10, 1955, pp 38-45.
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Fiftieth Anniversary of the Moscow Power Engineering Institute imeni Molotov, by M. P. Vukalovich, 7 pp.

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CIA/FDD U-3775

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Econ - Technical
Sci. - Engineering
Oct 56

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New Tables of the Basic Values of Specific Volume,
Specific Heat, and Enthalpy of Water and Steam at
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NLL RTB 2056

Sci - Engr

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Experimental Values for the Separate Flow of a
Steam-Water Mixture in a Straight Horizontal
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RUSSIAN, per, Teploenergetika, No 1, 1956, pp 22-25.

Co-Op Trans Sch Tr 345
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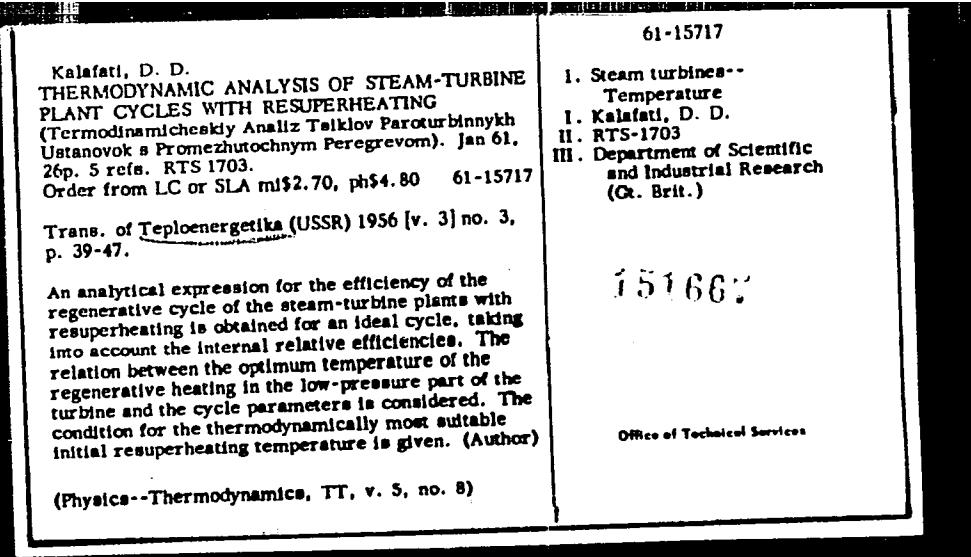
Certain Data on the Temperature Region of Vertical
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Effect of Non-Isothermal Field on Aerodynamic Flow
in the Cyclone Furnace, by L. A. Valis, B. P.
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Some Problems of Heat Exchange and Frictional
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RUSSIAN, per, Teplosvernetika, No 7, 1956,
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Sci - Phys

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Experimental Investigation of the Specific Heat of Steam in the Sub-Critical Region, by A. M. Sirota, D. L. Timrot.

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pp 16-23.

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Sci - Engr

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Design of Supercritical Once-Through Boilers,
by K. A. Rakov.

RUSSIAN, per, Teploenergetika, Vol III, No 8,
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NLL Ref: 9022.09 1963 (3225) (loan)

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Results of Thermochemical Tests on a Once-Through Boiler at 215 and 300 Atm, by Yu. M. Kostrikin, Yu. O. Novi.

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Intensive Gasification of Solid Fuel for Gas
Turbine Plants, by Kh. I. Kolodtsev, V. I.
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Sci - Fuels
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Transformation of the Chemical Energy of Fuel Into
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Sci-Electron

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Recommendations on the Design of Boilers With
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RUSSIAN, per, Teploenergetika, No 11, 1956,
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Co-mp Tr Sch Tr 408

Sci - Engr
Mar 58

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Dynamic Characteristics of Once-Through Boilers, by
A. A. Davidov, et al.

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Sci - Engr
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On Schemes for Automatic Combustion Control
Employing an Oxygen Meter, by V. D. Mironov.
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RUSSIAN, per, Teploenergetika, No 11, 1956,
pp 25-29.

Co-op Tr Scheme 355

Sci - Engr
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Research on a Highly Rated Gas Producer for Gas Turbine Plants, by Kh. I. Kolodtsev, I. F. Orel'chenko. UNCL

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Sci - Fuels; Engr
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The Solubility of NaCl at 110 atm. in the
Superheated Steam of Continuous Coil Boilers,
by G. I. Aleinikov, Yu. M. Kostrikin, Yu. O.
Novi, V. A. Taratuta. UWCL

RUSSIAN, per, Teploenergetika, Vol III, No 12,
1956, pp 10-14.

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Sci - Chem
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Technological Properties of Strongly Basic Anfonites,
by A. M. Prokhorova.

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Measurement of Pulverized Coal Flow in an
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Sci - Engr
Feb 60

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RUSSIAN, per, Teploenergetika, Feb 1957.

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Sci - Physics
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Control System of a New Series of Medium-Capacity Turbines, by M. G. Berenshtein, et al.

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MLL M. 3587

Sci - Engr

201, 190

Jul 62

New Type of Cyclone Steam Separator, by
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RUSSIAN, per, Teploenergetika, Vol 4, No 1, 1957
pp 17-20.
AEC Risley tr 1116 (on Loan)
NLL

Sci/Mechan, Indust, Civil
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Condensation of Water Vapour From
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RUSSIAN, per, Teploenergetika,
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NLL 9022.09 1964 (2952) (On Loan)

Aug 65

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Investigation of the Solubility of Salts in Steam
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Co-op Tr Sch 592

Sci - Chem

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M. HSS

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C.E. FACTORS LEADING TO DUST EXPLOSIONS IN NATURAL
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5515 S.L. Shagalova
Teploenergetika, Vol. 4, pp. 16-20
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(Digest, Vol. 9, abstract 1089)

Improvement of Power Station Economy by Fuel Drying, by N. M. Mikhaylov. UMCL

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pp 20-23.

DSIR LJJ (loan) M.456

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Sep59

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Thermodynamic Study of District-Heating Plants,
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RUSSIAN, per, Teploenergetika, No 2, 1957, pp 45-49.
AEC-Risley Tr 774

Sci
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Investigation of the Quality of Steam at a Pressure
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RUSSIAN, per, Teploenergetika, No 3, 1957,
pp 17-22.

DSIR LLU RTS 1622

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Oct 60

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Results of Operating the VTI Experimental Once-
Through Boiler Installation at 300 Atm and 600°C,
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RUSSIAN, per, Teploenergetika, No 3, 1957, pp 22-26.

Co-op Tr Sch Tr 412

Sci - Engr
Mar 58

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Adrianov, V. N. and Shorin, S. N.
HEAT TRANSFER IN THE CHANNEL FLOW OF
RADIATING COMBUSTION PRODUCTS. [1961] [22]p.
12 refs.
Order from OTS or SLA \$2.60

61-20714

Trans. of Teploenergetika (USSR) 1957 [v. 4] no. 3,
p. 50-[54].

DESCRIPTORS: Heat exchangers, Combustion
chambers, Heat transfer, Mathematical analysis.

The analytical solution of the problem of radiation
transfer in the flow of a radiating medium in a cylindri-
cal channel is compared with results of experimen-
tal research on composite heat transfer.

(Physics--Thermodynamics, TT, v. 7, no. 1)

Adrianov, V. N. - 4708

61-20714

I. Adrianov, V. N.
II. Shorin, S. N.

NSF TT-12

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Office of Technical Services

Arsen'ev, Yu. D.
THE PRINCIPLES OF APPLICATION OF APPROXIMATE SIMILARITY (O Printsipakh Primenenya Priblizhenogo Podobiya). Oct 60 [5]p. 2 refs.
TIL/T. 5140; [DSIR LLU] M. 2618; AD-244 589.
Order from OTS or SLA \$1.10 61-23395

Trans. of Teploenergetika (USSR) 1957 [v. 4] no. 3,
p. 55-57.

DESCRIPTORS: Experimental data, Errors, Mathematical analysis, *Functions, Numerical methods and procedures, Simulation.

(Mathematics, TT, v. 6, no. 9)

61-23395

L Arsen'ev, Yu. D.
IL TIL/T. 5140
III Ministry of Aviation
(Gr. Brit.)
IV. DSIR LLU M. 2618
V. AD-244 589

125540

Office of Technical Services

Some Problems Concerning Improvement in the
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M. E. Daitsch.

RUSSIAN, per, Teploenergetika, Vol IV, No 4,
1957, pp 3-6.

DSIR LLU M.1911
(loan) 128,896

Sci - Engr

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Relationships Characterizing the Output of a
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RUSSIAN, per, Teploenergetika, Vol IV, No 4, 1957,
pp 6-10.

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Sci - Engr

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Oct 60

New Hydraulic Schemes for the Control of District-Heating Turbines, by I. I. Gal'perin.

RUSSIAN, per, Teploenergetika, No 4, 1957,
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ILL M. 3588

Sci - Engr

202 786

Jul 62

The Increase in Non-Cavitation Properties of Centrifugal Pump Stages by Means of Preconnected Axial Rotors, by V. I. Dumov, 11 pp. *

RUSSIAN, per, Teploenergetika, Vol IV, No 4, 1957,
pp 16-21, Encl to IR-1573-57, AFCIN-1A1.

AF 1129150

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Sci - Engineering
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Some Results From Burning Anthracite Culm in the
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pp 26-33.

26-

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Operating Experience With a Boiler Feed Water
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P. S. Mikhailenko.

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ATB 2K25R
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Experimental Investigation of the Mechanism of
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G. G. Treshchov.

RUSSIAN, per, Teploenergetika, Vol IV, No 5,
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Co-op Tr Scheme 465

Sci - Engr

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Measurement of Metal Heat Conductivity in a Wide
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AEC/SCL-T-220

Sci - Phys
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Experimental Study of the Mechanism of Heat Transfer in Surface Boiling of Water, by G. G. Tret'yakov. UNCLASSIFIED

RUSIAN, Sov. Teploenergetika, No 5, 1957,
pp 54-57.

Co-Op Tr Sch
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Sci - Phys
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Experimental Study of Circulating Pressures in
the Downward Flow of Steam-Water Mixtures in
Vertical Tubes at Pressures Up to 180 ATM, by
A. L. Shvarts, et al.

RUSSIAN, per, Teploenergetika, No 6, 1957,
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Co-op Tr Scheme 489

Sci - Phys

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<p>Ragulin, N. P. PRESSURE EQUALIZATION IN THE PIPE-TURNS OF A ONCE-THROUGH BOILER. [1960] [9]p. 1 ref. C. E. Trans. 1655; M2318. Order from LC or SLA m181.80, pb\$1.80 61-13461 Trans. of Teploenergetika (USSR) 1957, v. 4, no. 6, p. 21-25. An analysis is given of the functioning of breather headers in once-through boilers for reduction of pulsation between the pipe-turns, and of the variation in heat absorption. (Author) (Engineering--Mechanical, TT, v. 5, no. 8)</p>	<p>61-13461</p> <p>I. Steam pipes--Pressure distribution 2. Boilers--Design 3. Title: Once-through boiler I. Ragulin, N. P. II. CE Trans-1655 III. DGIN LLU M. 2318 IV. Central Electricity Generating Board (Gt. Brit.)</p> <p>151 C 52</p> <p>Office of Technical Services</p>
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<p>Berman, L. D. EXPERIMENTAL INVESTIGATIONS OF STEAM CONDENSATION IN THE PRESENCE OF NONCONDENSING GASES (Eksperimental'nyye Issledovaniya Kondensatsii para v Prisutstvii Nekondensiruyushchikh Gazu). [1960] [23]p. (foreign text included) 27 refs. M1436. Order from LC or SLA mi\$2.70, ph\$4.80 60-23029 Trans. of Teploenergetika (USSR) 1957, v. 4, no. 6, p. 43-50. The paper examines the results of a number of experiments and the possible fields of application of the proposed experimental relations for the coefficients of heat loss and mass transfer in steam condensation from a steam-gas mixture; and takes note of questionable and erroneous statements in certain work. (Author) (Chemistry--Physical, TT, v. 5, no. 3)</p>	<p>60-23029 I. Steam--Condensation I. Berman, L. D. II. DSIR LLU M. 1436 Office of Technical Services</p>
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Experimental Investigations of Steam Condensation
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RUSSIAN, per, Teploenergetika, Vol IV, No 6,
1957, pp 82-86.

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Sci - Phys

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A Method of Studying Graphitization and Estimating
Its Rate of Development, by A. Z. Kontorovskiy.
UNCL.

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1957, pp 57-59.

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Sci - Fuels
Aug 59

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A New Method of Generalizing Experimental Data
on the Movement of a Steam-Water Mixture in
Vertical Tubes, by G. E. Kholodovskiy.
UNCLASSIFIED

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pp 68-71.

Co-Op Tr Scheme 498

Sci - Phys
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(Please Transl.)
from Sci to English 78, 053-
SFA - R 1693
49807809

Heat Transfer in Film Condensation of Pure Steam
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D. A. Labuntsov. UNCLASSIFIED

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Co-Op Tr Sch
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Sci - Phys
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Experimental Investigation of the Regulation of the
IMZ SVK-150 Turbine, by B. P. Murganov. UNCLASSIFIED

RUSSIAN, per, Teploenergetika, No 8, 1957, pp 9-15.

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Sci - Engr
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Profile and Tip Losses in a Turbine Stage,
by A. N. Zverdovskiy. UNCLASSIFIED

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pp 15-18.

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(L 1.12s.)

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Coefficients of Flow Through Pressure-Equalizing
Holes in Turbine Discs, by G. S. Semiclovich,
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(L 2.8s.)

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Calculation of Heat Transfer in Boiler
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RUSSIAN, per, Teploenergetika, No 8, 1957,
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Sci - Phys
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Measurement of the Temperature of a Film of
Liquid Slag in Boilers With Liquid Slagging,
by S. G. Agababov. UNCLASSIFIED

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Sci - Phys
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US-14

KHOLODOVSKII G. E.

A new method of generalizing experimental data on the flow
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Teploenergetika, 4, No. 8, 68-72 (1957)

ATS-91M40R. \$ 13.50 - English

E u r a t o m

KJ- 3312

The Use of Accelerators in Steam Turbine Control Systems, by V. N. Veller.

RUSSIAN, per, Teploenergetika, No 9, 1957, pp 7-12.

MLL M. 3589

Sci - Engr

Jul 62

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Mechanism of Cavitation in Centrifugal Pumps,
by V. V. Chubayevskiy. UNCLASSIFIED

RUSSIAN, per, Toploenergetika, No 9, 1957,
pp 12-16.

Co-op Tr Scheme 543
(L 2.)

Sci - Engr
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Experience in Running the Boilers for
Kiev TETS-3 Heat and Power Station on
Natural Gas, by M. M. Omel'chemko.
RUSSIAN, per, Teploenergetika, No 9,
1957, pp 26-32.
NLL Ref: 9022.09 (4788)

Sci-Mech
Apr 69 379,912

Turbine Stage with Constant Reaction, by S Levina
Slobodianyuk.

RUSSIAN, per, Tuploenergetika, Vol IV, Sep 1956,
pp 28-35.

No 9,
ASLIB-GEN:53

Sci

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Investigation of the Effect of the Velocity of
a Steam-Water Mixture in a Header on Its
Distribution Between Parallel Turns, by B. I.
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RUSSIAN, per, Teploenergetika, No 9, 1957,
pp 37-39.

Co-Op Tr Scheme 501

Sci - Phys
Dec 58

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Behaviour of the Metal in Radiation Superheaters
in the Boiler Walls, by A. K. Vnukov. UNCLASSIFIED

RUSSIAN, per, Teploenergetika, No 9, 1957, pp
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Sci - Phys
Dec 58

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Temperature Conditions in Horizontal Steam-
Generating Tubes at Extra High Pressures, by
V. G. Chukrygin, et al. UNCLASSIFIED

RUSSIAN, per, Teploenergetika, No 9, 1957,
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Co-Op Tr Scheme 509

Sci - Phys
200 59

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Heat Transfer During Boiling of Water Below
Saturation Temperature in Tubes, by I. T.
Aladyev, et al. UNCLASSIFIED

RUSSIAN, per, Teploenergetika, No 9, 1957,
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Co-Op Tr Scheme 510

Sci - Phys
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Heat Transfer in an Air-Cooled Cyclone Combustion Chamber With Gas Outlet at the Top, by B. D. Katsnel'son, et al. UNCLASSIFIED

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pp 6 73-75.

Co-Op Tr Scheme 512

Sci - Phys
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Design of Turbomachine Disks Taking Into Account
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10 pp.

RUSSIAN, per, Teploenergetika, No 9, 1957, pp
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Sci - Engr
Jan 60

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Operating Temperatures of Horizontal Steam-
generating Tubes at Supercritical Pressures
(230 to 250 atm.), by V. G. Chokrygin, et al.
~~UNCLASSIFIED~~

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Sat - Phys
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RUSSIAN, per, Teploenergetika, Vol IV, No 10, 1957, pp 73-77.

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OTS, Vol IV, No 3

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Econ

air info Dir

Sci - Electricity

Lib of Congress
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Achievements of Soviet Power Engineering in the
Operation of Electric Power Stations, by E. I. Dub,
30 pp. UNCLASSIFIED

RUSSIAN, no per, Teploenergetika, No 11, Moscow,
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US JPRS/NY-L-24

USSR
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S LA R-1930
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<p>Kostrikin, Yu. M. EFFECTIVENESS OF OXYGEN REMOVAL BY HYDRAZINE. [1962] 7p. Order from ATS \$8.25 Trans. of Teploenergetika (USSR) 1957, v. 4, no. 11, p. 70-73.</p> <p>Descriptors: *Hydrazines, Oxygen, Disposal.</p> <p>AEC-TR-6104 (9217201)</p> <p>(Chemistry--Organic, TT, v. 8, no. 4)</p>	<p>62-17726</p> <p>I. Kostrikin, Yu. M. II. ATS-03P61R III. Associated Technical Services, Inc., East Orange, N. J.</p> <p>Office of Technical Services</p>
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Several materials were subjected to erosive wear by
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of investigated materials is compared with that of
steel E Ya 1 T. Factors influencing the wear of
materials are considered and recommendations are
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1. Fluid flow--Corrosive effects
2. Water--Corrosive effects
3. Metals--Corrosion

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